Applying the 2007 National Electrical Safety Code® (NESC®) to Day-to-Day Utility Work

Class Schedule—Day 1

8:00 a.m. Registration

8:30 a.m. Welcome

8:45 a.m. ♦ **Introduction—Sections 01, 02, 03, 09**
- The Four Parts of the NESC®
- Purpose and Scope of the NESC®
- The NESC® vs. the NEC
- Definitions and References
- Grounding Methods for Substations & Lines

♦ **Part 1—Electric Supply Stations**
- Substation Fences
- Safety Signs
- Storage
- Clearances
- Guards

10:15 a.m. **Break**

10:30 a.m. ♦ **Part 2—Overhead Lines**
- Inspection and Tests of Overhead Lines
- Readily Climbable Structures
- Tree Clearing
- Understanding a Sag and Tension Table
- The 10 Rules of Overhead Line Clearance
- Most Popular Table in NESC®, Table 232-1

12 Noon **Lunch**

1:00 p.m ♦ **Part 2—Overhead Lines** (continued)
- 2nd Most Popular Table, Table 234-1
- Climbing Space and Working Space
- Joint Use Overhead Clearances
- Communication Worker Safety Zone
- Grades of Construction
- Overload and Strength Factors

2:30 p.m **Break**

2:45 p.m ♦ **Part 3—Underground Lines**
- UG Conduit vs. Direct Buried Systems
- Burial Depths
- Submarine Cable Crossings
- Manholes and Vaults
- Joint Use Underground Installations

♦ **Part 4—Work Rules**
- 4 Rules of Operating Supply & Comm. Lines
- The NESC® vs. OSHA
- General Rules for Employers and Employees
- Additional Rules for Communication Workers
- Additional Rules for Supply Workers

4:15 p.m **Adjourn**

CONTINUING EDUCATION UNITS

This course provides 1.2 Continuing Education Units (CEUs) or 12 Professional Development Hours (PDHs).

Marne and Associates, Inc.
Experts in Electrical Code

Class Schedule—Day 2 (Examples and Exercises)

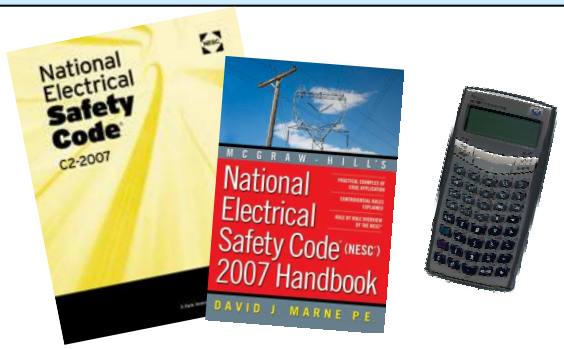
8:30 a.m.	Welcome
8:45 a.m.	♦ Substation Examples & Exercises
10:15 a.m.	Break
10:30 a.m.	♦ OH Line Examples & Exercises
12 Noon	Lunch
1:00 p.m.	♦ OH Line Examples & Exercises (Continued)
2:30 p.m.	Break
2:45 p.m.	♦ UG Line Examples & Exercises
4:15 p.m.	Adjourn

About the Seminar:

This NESC® seminar is a two-day class focusing on the rules in the National Electrical Safety Code® (NESC®). The class will provide a general overview of each part of the NESC® (Day 1). Applying the Code to day-to-day work will be stressed by focusing on practical NESC® examples and applications (Day 2). The class is intended for engineers, staking technicians, power linemen, communications linemen, safety personnel and inspectors. Prior working knowledge of the NESC® is not required. The class includes ample time for questions and attendees are encouraged to share their NESC® applications with the class. The presentation is rich in graphics.

About the Instructor:

This course has been prepared under the direction of David J. Marne, P.E. Dave is the author of *McGraw-Hill's NESC® 2007 Handbook*. The class will be presented by David Marne, P.E. or Grant Glaus, P.E. Both gentlemen have experience with NESC® code applications, transmission design, distribution design, substation design, joint use power and communication design, and system planning.



Attendees are encouraged to bring a calculator and a copy of the NESC® Codebook and McGraw-Hill's NESC® Handbook. These books are available at www.codehandbook.com.